



02 01-06

COFC

Docket No: AM101163  
PatentIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re of Application of: Diane Harris BOSCHELLI et al.  
Application No.: 10/719,359 Group Art No.: 1625  
Filed: November 21, 2003 Examiner: M. Seaman  
Patent No.: 6,987,116  
Issued: January 17, 2006  
For: THIENO[3,2-b]PYRIDINE-6-CARBONITRILES AND THIENO[2,3-b]PYRIDINE-6-CARBONITRILES AS PROTEIN KINASE INHIBITORS  
Confirmation No.: 4087  
Customer Number: 25291

**Certificate**

FEB 06 2006

**of Correction**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

REQUEST FOR ISSUANCE OF CERTIFICATE OF CORRECTION

The issuance of a Certificate of Correction for the above-identified patent as set forth on the attached PTO/SB/44 form is requested.

**CERTIFICATE OF MAILING 37 CFR §1.10**

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service on the date written below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV238505600US addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

January 31, 2006  
Date

Lori M. Smith  
Lori M. Smith

FEB 6 2006

Patentees filed a Request for Continued Examination (RCE) on March 9, 2005, which included amendments to the specification and claims. Patentees received a Notice of Allowability dated August 23, 2005, which acknowledged the RCE amendments and allowed the claims. The following errors are amendments that were made in the RCE but did not appear in the published patent. Therefore, these errors are not attributable to Patentees and correction is requested under 37 CFR § 1.322.

<u>Column</u>	<u>Line</u>
30	45-46
30	47
30	48
30	49-50
30	53
30	59-66
31	2-9
31	10-17
31	20-31
31	34-41
31	44-51
31	55-62
32	2-10
38	66-67
39	1-2
39	3
39	4-5
39	8-9
39	15-22
39	23-30
39	31-38
39	39-49
39	50-57
39	59-66
40	2-10
40	14-22
42	21-28
42	31-38
42	39-45
45	10-16
45	17-24
45	25-31
46	20-40
46	41-54
48	50-57
48	58-66
49	2-10
51	31-39
51	40-48
51	49-57
52, 53	52-65, 2-9
53	10-26
107	43-44
117	3
119	36
131	33
134	26

SEP 6 2006

Patentees filed Amendments After Allowance Under 37 U.S.C. §1.312 on October 12, 2005, which included amendments to the claims. Patentees received an Office Action dated November 22, 2005, stating that the amendments had been entered. The following errors are amendments that were made in the §1.312 Amendment but did not appear in the published patent. Therefore, these errors are not attributable to Patentees and correction is requested under 37 CFR § 1.322.

<u>Column</u>	<u>Line</u>
108	26
108	27
109	32
109	33-34
117	67
118	1-2
123	41
123	42
130	66
130	67
132	25
132	26-27

The following errors are not attributable to Patentees. Accordingly, correction is requested under 37 CFR § 1.322.

<u>In the Specification, please see:</u>			
<u>Column</u>	<u>Line</u>	<u>Page</u>	<u>Line</u>
109	5	170	7
123	11	196	22
123	46	197	16
130	44	199	10
131	4	200	13
131	65	206	12

The following errors are attributable to Patentees. Accordingly, correction is requested under 37 CFR § 1.323. The Commissioner is hereby authorized to charge the required fee of \$100.00 and any additional fees as required by 37 CFR § 1.20(a) to Deposit Account No. 07-1060. A duplicate of this request is enclosed.

<u>Column</u>	<u>Line</u>
56	38-65
108	35
109	11
118	10
121	67
122	51
123	50
130	1
130	43
131	8
132	1
132	35

ESR 6 2006

Remarks

A Certificate of Correction is requested to correct minor errors not attributable to Patentees under 37 CFR § 1.322. Support for correcting these errors can be found in the RCE amendments filed March 9, 2005, the §1.312 amendments filed on October 12, 2005, and in the original specification as indicated above.

A Certificate of Correction is also requested to correct minor errors attributable to the Patentees under 37 CFR § 1.323. Support for correcting the bottom left formula of Scheme 17 (column 56, line 17) can be found in the other formulas in the scheme, wherein  $R^3$  is correctly shown. Support for correcting " $-NH(CH_2)_nCR^8$ " to properly read " $-NH(CH_2)_nNR^4R^8$ " (column 109, line 11, and column 132, line 1) can be found in the lines immediately preceding these errors, wherein comparable variables " $-NH(CH_2)_nNHR^8$ " and " $NR^4(CH_2)_nNHR^8$ " are shown. The requested correction in column 122, line 51, is merely to change subscripts to superscripts. Support for the correction in column 130, line 43, can be found, for example, in column 107, lines 40-42. Finally, Patentees request that "and" be replaced with "or" where indicated to properly place the lists of variables in the alternative.

Patentees state that the forgoing mistakes were made in good faith and that correction of these mistakes does not involve changes in the patent that would constitute new matter or would require re-examination. Issuance of the Certificate of Correction is respectfully requested. The Examiner is invited to contact the undersigned attorney to discuss any issues.

Respectfully submitted,



Michael J. Nesler  
Attorney for Applicants  
Reg. No. 55,489

Wyeth  
Patent Law Department  
Five Giralda Farms  
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Tel. No. (617) 665-6085

6 2006

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 1 of 22

PATENT NO. : 6,987,116  
 APPLICATION NO. : 10/719,359  
 ISSUE DATE : JANUARY 17, 2006  
 INVENTOR(S) : DIANE HARRIS BOSCHELLI ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 30, Lines 45-46

Replace " $R^3(C(R^8)_2)_q-CO_2H$ , and  $R^3(C(R^8)_2)_q-COQ$ " with --  $R^3-C(O)XR^8$ , wherein X is O and  $R^8$  is H, or  $R^3-C(O)Q$  --

Column 30, Line 47

Replace " $R^3(C(R^8)_2)_q-CO_2R^4$ . Compounds" with --  $R^3-C(O)XR^8$ , wherein X is O and  $R^8$  is lower alkyl. Esters --

Column 30, line 48

Replace " $R^3(C(R^8)_2)_q-CO_2R^4$ " with --  $R^3-C(O)XR^8$ , wherein X is O and  $R^8$  is lower alkyl --

Column 30, lines 49-50

Delete "of formula Ia where the group  $R^2$  is  $R^3(C(R^8)_2)_q-CO_2H$ "

Column 30, line 53

Replace " $R^3(C(R^8)_2)_q-Q$ " with --  $R^3-C(O)Q$  --

MAILING ADDRESS OF SENDER:

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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

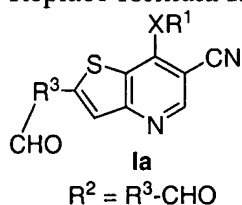
Page 2 of 22

PATENT NO. : 6,987,116  
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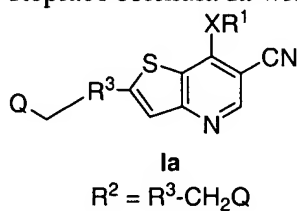
Column 30, lines 59-66, and column 31, lines 34-41

Replace formula Ia with:



Column 31, lines 2-9

Replace formula Ia with:



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## Page 3 of 22

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:


NC#Cc1nc2c(c1)c(s2)C(R3)COXR1

**la**  
 $R^2 = R^3\text{-CH}_2\text{OH}$

C1COC(C1)C2=C(R3)SC3=C2N=CN=C3C#NXR1

**la**

$R^2 = R^3$



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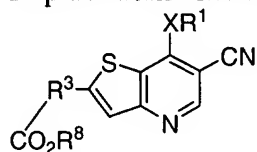
Page 4 of 22

PATENT NO. : 6,987,116  
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It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 31, lines 44-51

Replace formula Ia with:



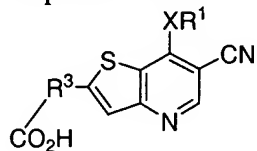
Ia

$R^2 = R^3-C(O)XR^8$

X=O ; R⁸=alkyl

Column 31, lines 55-62

Replace formula Ia with:



Ia

$R^2 = R^3-C(O)XR^8$

X=O ; R⁸= H

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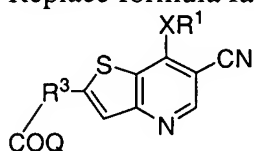
## CERTIFICATE OF CORRECTION

Page 5 of 22

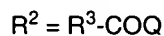
PATENT NO. : 6,987,116  
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 ISSUE DATE : JANUARY 17, 2006  
 INVENTOR(S) : DIANE HARRIS BOSCHELLI ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 32, lines 2-10  
 Replace formula Ia with:



Ia



Column 38, lines 66-67

Replace “R<sup>3</sup> substituted with (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-CO<sub>2</sub>H, and (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-COQ” with -- R<sup>3</sup>-C(O)XR<sup>8</sup>, wherein X is O and R<sup>8</sup> is H, or R<sup>3</sup>-C(O)Q --

Column 39, lines 1-2

Replace “R<sup>3</sup> substituted by (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-CO<sub>2</sub>R<sup>4</sup>. Compounds” with -- R<sup>3</sup>-C(O)XR<sup>8</sup>, wherein X is O and R<sup>8</sup> is lower alkyl. Esters --

Column 39, line 3

Replace “R<sup>3</sup> substituted with (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-CO<sub>2</sub>R<sup>4</sup>” with -- R<sup>3</sup>-C(O)XR<sup>8</sup>, wherein X is O and R<sup>8</sup> is lower alkyl, --

Column 39, lines 4-5

Delete “of formula Ib where the group R<sup>2</sup> is R<sup>3</sup> substituted by (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-CO<sub>2</sub>H”

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 6 of 22

PATENT NO. : 6,987,116  
APPLICATION NO. : 10/719,359  
ISSUE DATE : JANUARY 17, 2006  
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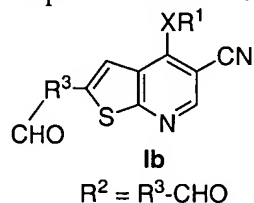
It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 39, lines 8-9

Replace "R<sup>3</sup> substituted with (C(R<sup>8</sup>)<sub>2</sub>)<sub>q</sub>-COQ" with -- R<sup>3</sup>-C(O)Q --

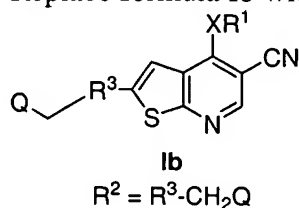
Column 39, lines 15-22 and lines 50-57

Replace formula Ib with:



Column 39, lines 23-30

Replace formula Ib with:



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## Page 7 of 22

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

NC1=CC=C2C(=C1)S=C(R3)C2=C(R1)C(R2)=N

**Ib**  
 $R^2 = R^3-CH_2OH$

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# UNITED STATES PATENT AND TRADEMARK OFFICE

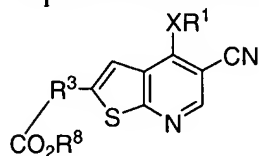
## CERTIFICATE OF CORRECTION

Page 8 of 22

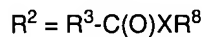
PATENT NO. : 6,987,116  
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 ISSUE DATE : JANUARY 17, 2006  
 INVENTOR(S) : DIANE HARRIS BOSCHELLI ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 39, lines 59-66  
 Replace formula Ib with:

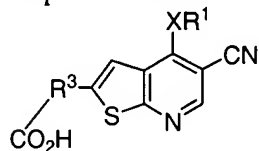


**Ib**

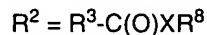


X=O ; R⁸=alkyl

Column 40, lines 2-10  
 Replace formula Ib with:



**Ib**



X=O ; R⁸=H

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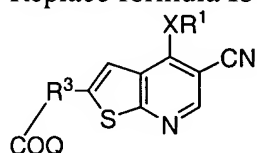
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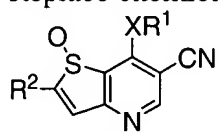
Column 40, lines 14-22  
Replace formula Ib with:



**Ib**

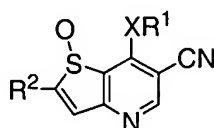
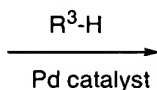
$R^2 = R^3\text{-COQ}$

Column 42, lines 21-28  
Replace chemical equation with:



**Ic**

$R^2 = \text{LG} = \text{Br or I}$



**Ic**

$R^2 = R^3 = \text{alkyne or alkene}$

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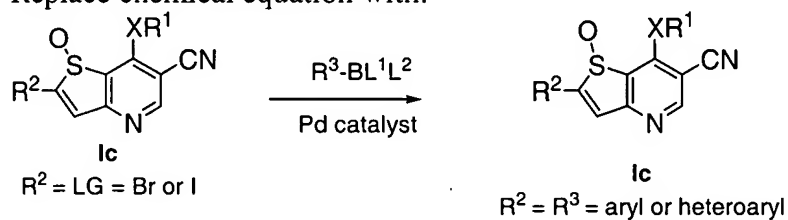
Page 10 of 22

PATENT NO. : 6,987,116  
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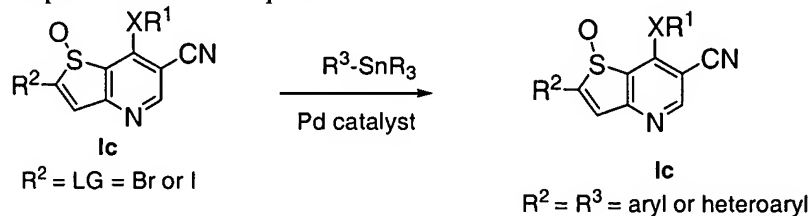
Column 42, lines 31-38

Replace chemical equation with:



Column 42, lines 39-45

Replace chemical equation with:



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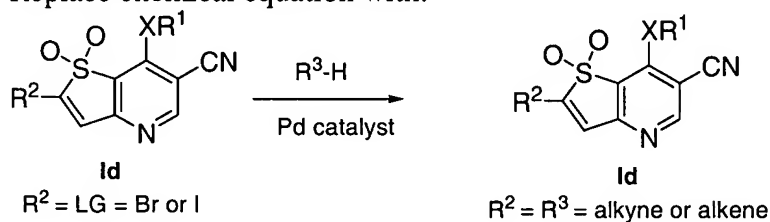
Page 11 of 22

PATENT NO. : 6,987,116  
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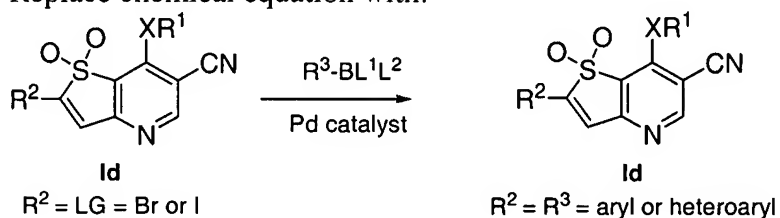
Column 45, lines 10-16

Replace chemical equation with:



Column 45, lines 17-24

Replace chemical equation with:



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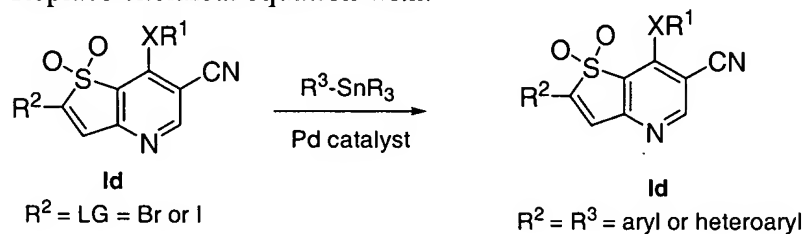
Page 12 of 22

PATENT NO. : 6,987,116  
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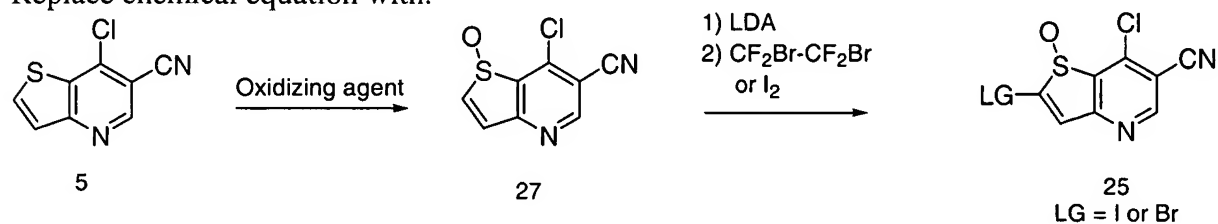
Column 45, lines 25-31

Replace chemical equation with:



Column 46, lines 20-40

Replace chemical equation with:



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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

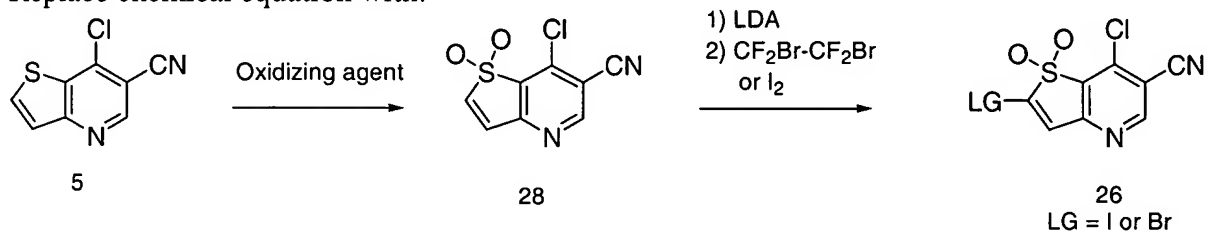
Page 13 of 22

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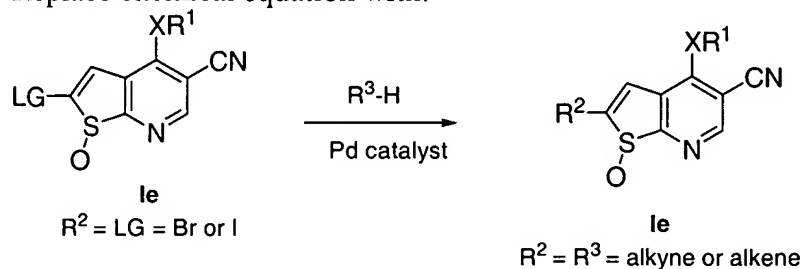
Column 46, lines 41-54

Replace chemical equation with:



Column 48, lines 50-57

Replace chemical equation with:



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 Madison, NJ 07940

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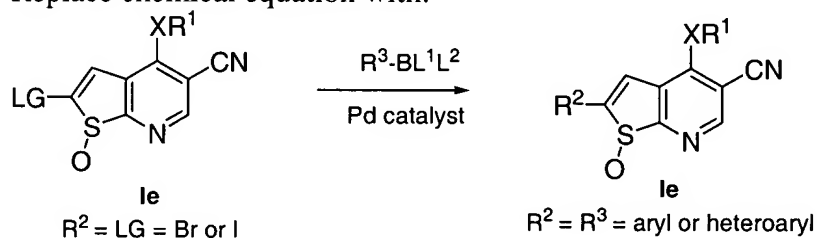
Page 14 of 22

PATENT NO. : 6,987,116  
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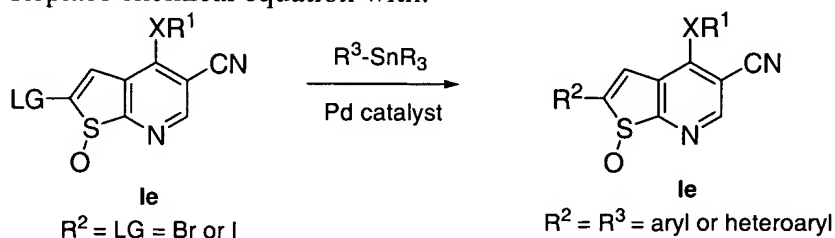
Column 48, lines 58-66

Replace chemical equation with:



Column 49, lines 2-10

Replace chemical equation with:



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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

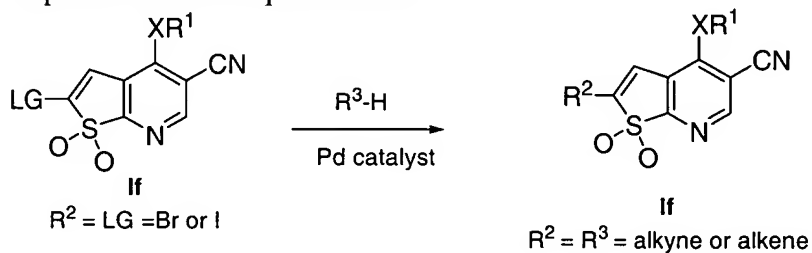
Page 15 of 22

PATENT NO. : 6,987,116  
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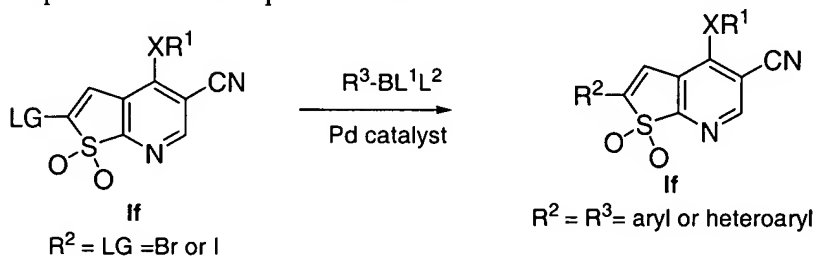
Column 51, lines 31-39

Replace chemical equation with:



Column 51, lines 40-48

Replace chemical equation with:



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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

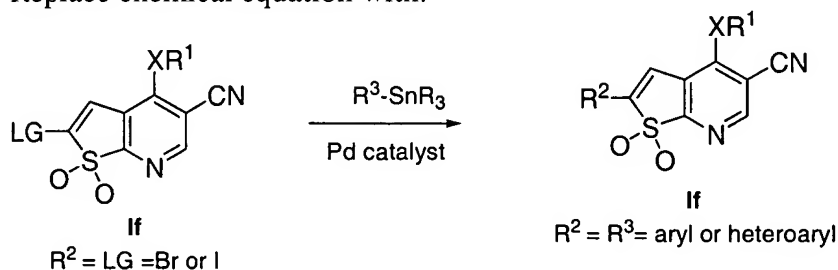
Page 16 of 22

PATENT NO. : 6,987,116  
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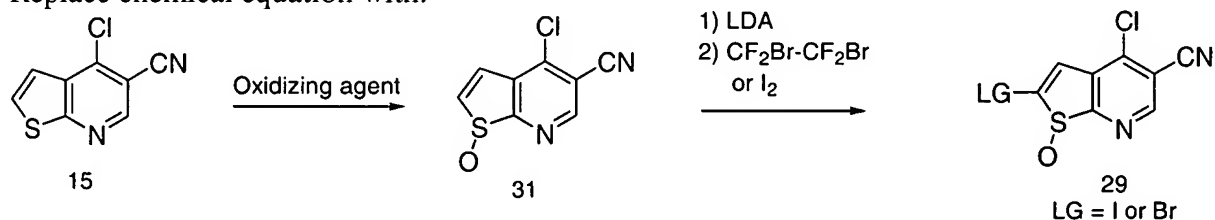
Column 51, lines 49-57

Replace chemical equation with:



Column 52, line 52, through column 53, line 9

Replace chemical equation with:



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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

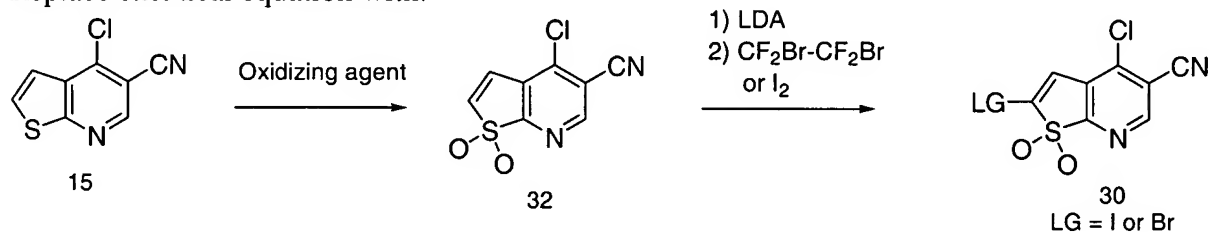
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PATENT NO. : 6,987,116  
 APPLICATION NO. : 10/719,359  
 ISSUE DATE : JANUARY 17, 2006  
 INVENTOR(S) : DIANE HARRIS BOSCHELLI ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

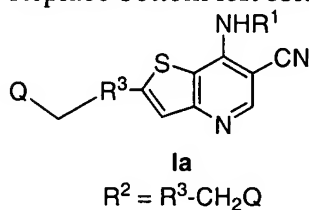
Column 53, lines 10-26

Replace chemical equation with:



Column 56, lines 38-65

Replace bottom left formula in Scheme 17 with:



Column 107, lines 43-44

Replace “ $-(\text{C}(\text{R}^3)_2)_q\text{XR}^8$ ,  $-(\text{C}(\text{R}^3)_2)_q\text{Q}$ ,  $-\text{X}(\text{C}(\text{R}^3)_2)_n\text{XR}^8$ ,  $-\text{X}(\text{C}(\text{R}^3)_2)_n\text{Q}$ , or  $-\text{X}(\text{C}(\text{R}^3)_2)_q\text{R}^8$ ” with “ $-(\text{C}(\text{R}^9)_2)_q\text{XR}^8$ ,  $-(\text{C}(\text{R}^9)_2)_q\text{Q}$ ,  $-\text{X}(\text{C}(\text{R}^9)_2)_n\text{XR}^8$ ,  $-\text{X}(\text{C}(\text{R}^9)_2)_n\text{Q}$ , or  $-\text{X}(\text{C}(\text{R}^9)_2)_q\text{R}^8$ ”

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Column 108, line 26  
 Replace “-(C(R<sup>9</sup>)<sub>2</sub>)<sub>n</sub>XR<sup>3</sup>” with -- -(C(R<sup>9</sup>)<sub>2</sub>)<sub>n</sub>XR<sup>4</sup> --

Column 108, line 27  
 Replace “-(C(R<sup>9</sup>)<sub>2</sub>)<sub>q</sub>XR<sup>3</sup>” with -- -(C(R<sup>9</sup>)<sub>2</sub>)<sub>q</sub>XR<sup>4</sup> --

Column 108, line 35  
 Replace “and” with -- or --

Column 109, line 5  
 Replace “-(CH<sup>2</sup>)<sub>q</sub>NR<sup>4</sup>R<sup>8</sup>” with -- -(CH<sub>2</sub>)<sub>q</sub>NR<sup>4</sup>R<sup>8</sup> --

Column 109, line 11  
 Replace “-NH(CH<sub>2</sub>)<sub>n</sub>CR<sup>8</sup>” with -- -NH(CH<sub>2</sub>)<sub>n</sub>NR<sup>4</sup>R<sup>8</sup> --

Column 109, line 32  
 Replace “-(CH<sub>2</sub>)<sub>n</sub>OR<sup>3</sup>” with -- -(CH<sub>2</sub>)<sub>n</sub>OR<sup>4</sup> --

Column 109, lines 33-34  
 Replace “-(CH<sub>2</sub>)<sub>q</sub>OR<sup>3</sup>” with -- -(CH<sub>2</sub>)<sub>q</sub>OR<sup>4</sup> --

Column 117, line 3  
 Replace “carbonite” with -- carbonitrile --

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Column 117, line 67

Replace " $-(CH_2)_nOR^3$ " with --  $-(CH_2)_nOR^4$  --

Column 118, lines 1-2

Replace " $-(CH_2)_qOR^3$ " with --  $-(CH_2)_qOR^4$  --

Column 118, line 10

Replace "and iodo" with -- or iodo --

Column 119, line 36

Replace "carbonite" with -- carbonitrile --

Column 121, line 67

Replace "and" with -- or --

Column 122, line 51

Replace " $-R_5NR_4C(O)NR^4R^4$ " with --  $-R^5NR^4C(O)NR^4R^4$  --

Column 123, line 11

Replace " $-S(O)R_mR^4$ " with --  $-S(O)_mR^4$  --

Column 123, line 41

Replace " $-(C(R^9)_2)_nXR^3$ " with --  $-(C(R^9)_2)_nXR^4$  --

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Column 123, line 42  
 Replace " $-(C(R^9)_2)_qXR^3$ " with --  $-(C(R^9)_2)_qXR^4$  --

Column 123, line 46  
 Replace "Z' and Z'''" with -- Z' and Z''' --

Column 123, line 50  
 Replace "and iodo" with -- or iodo --

Column 130, line 1  
 Replace "and" with -- or --

Column 130, line 43  
 Replace "group may by one groups" with -- wherein the  $R^3$  group may be substituted by one or more groups --

Column 130, line 44  
 Replace " $-C(O)XR^6$ " with --  $-C(O)XR^8$  --

Column 130, line 66  
 Replace " $-(C(R^9)_2)_nXR^3$ " with --  $-(C(R^9)_2)_nXR^4$  --

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Column 130, line 67

Replace " $-(C(R^9)_2)_qXR^3$ " with --  $-(C(R^9)_2)_qXR^4$  --

Column 131, line 4

Replace "Z' and Z'''" with -- Z'' and Z''' --

Column 131, line 8

Replace "and iodo" with -- or iodo --

Column 131, line 33

Replace "and" with -- or --

Column 131, line 65

Replace " $-NH(CH_2)_nOR^6$ " with --  $-NH(CH_2)_nOR^8$  --

Column 132, line 1

Replace " $-NH(CH_2)_nCR^8$ " with --  $-NH(CH_2)_nNR^4R^8$  --

Column 132, line 25

Replace " $-(CH_2)_nOR^3$ " with --  $-(CH_2)_nOR^4$  --

Column 132, lines 26-27

Replace " $-(CH_2)_qOR^3$ " with --  $-(CH_2)_qOR^4$  --

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Column 132, line 35  
Replace "and iodo" with -- or iodo --

Column 134, line 26  
Replace "carbonite" with -- carbonitrile --

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Only